

FIG. 1

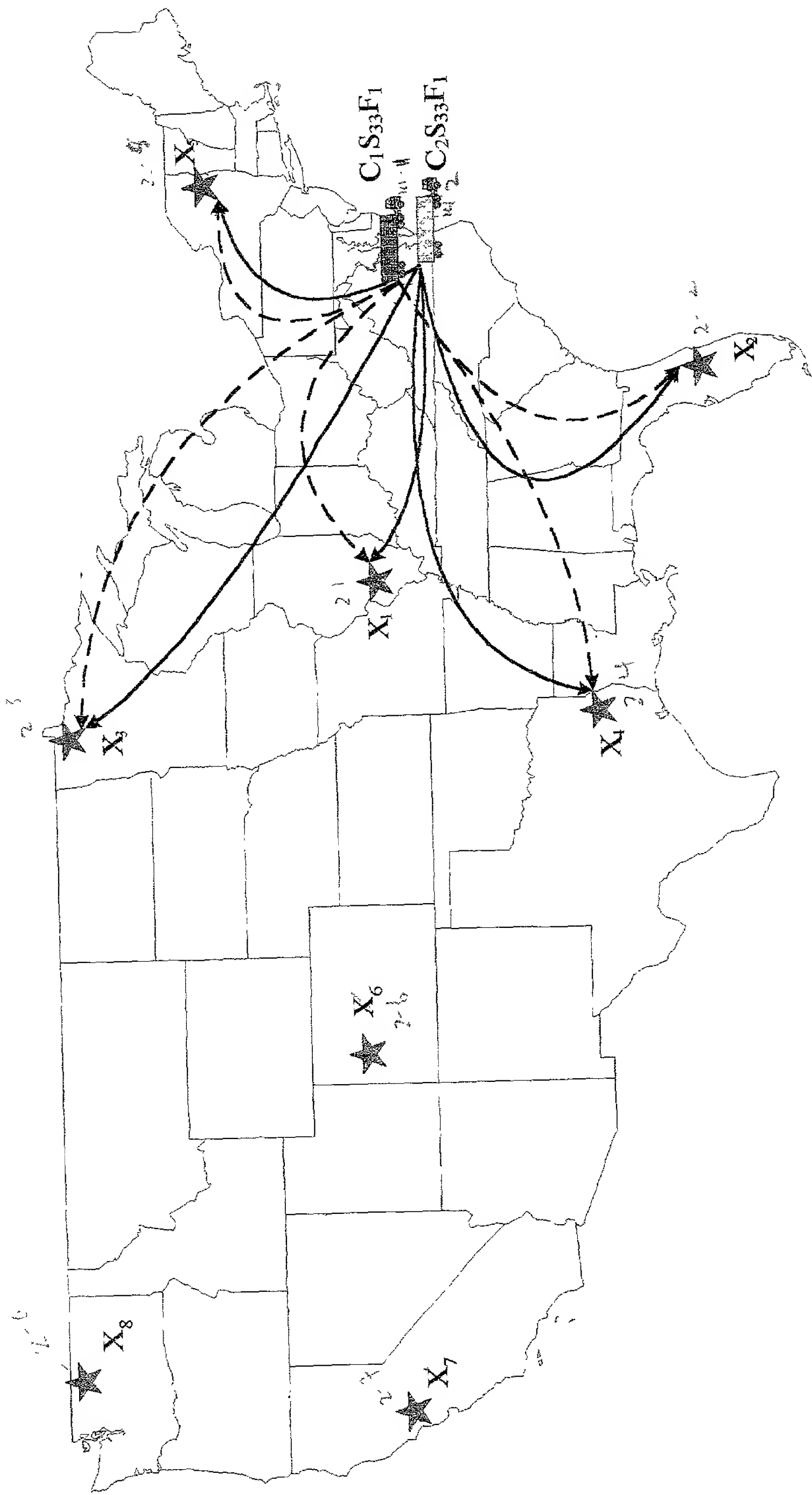


FIG. 2

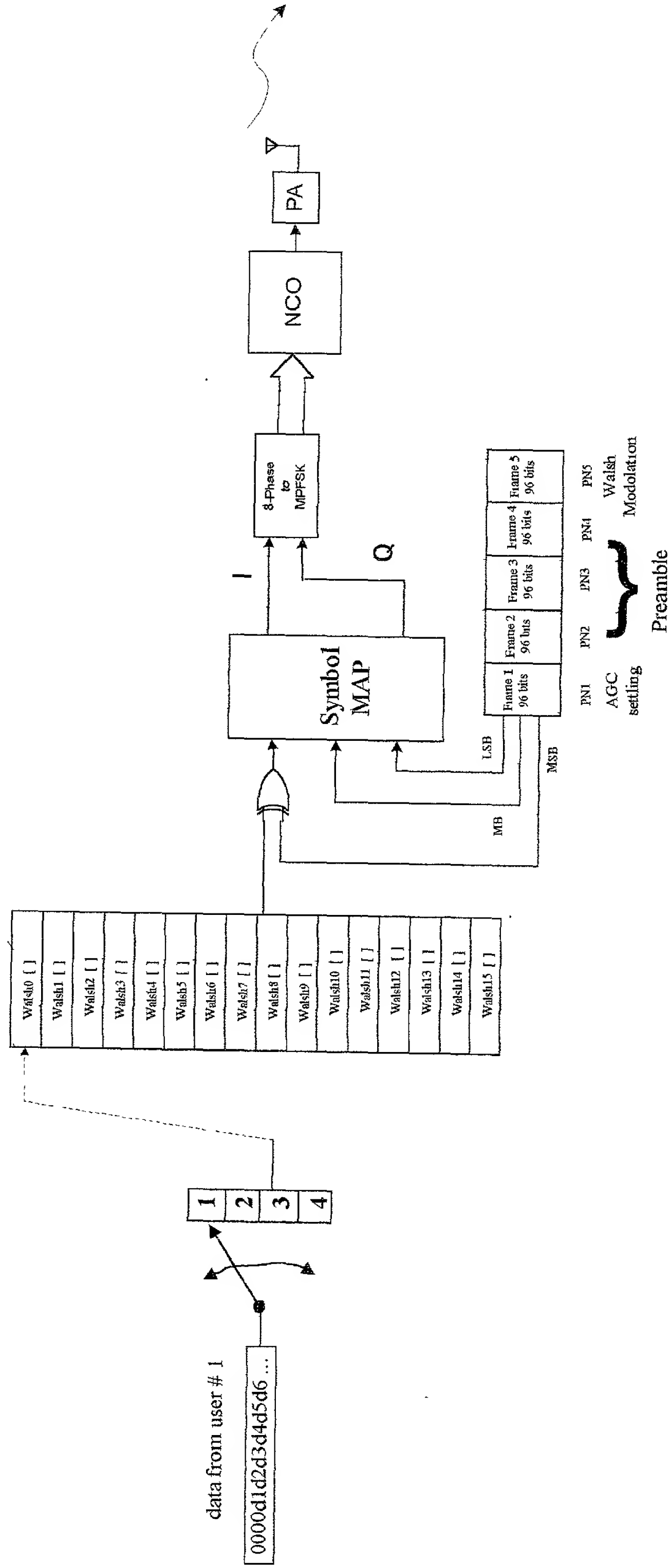


FIG. 3

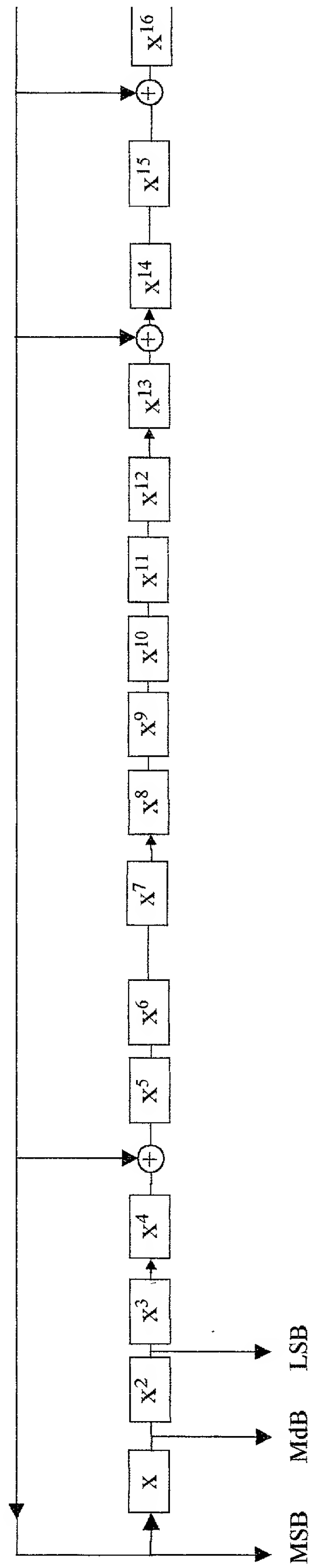


FIG. 4

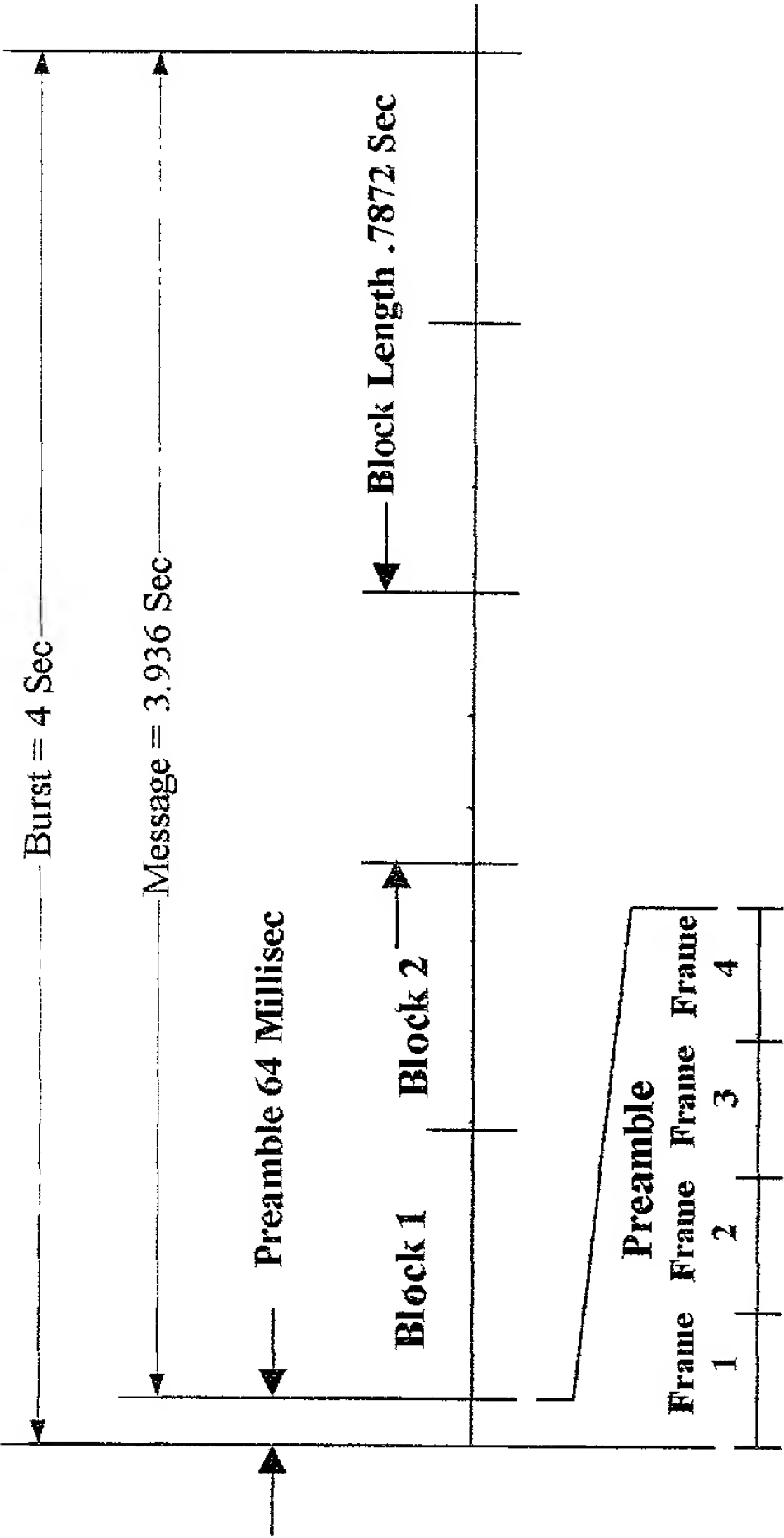


FIG. 5

New Low Rate HF Modulator Using Orthogonal Codes

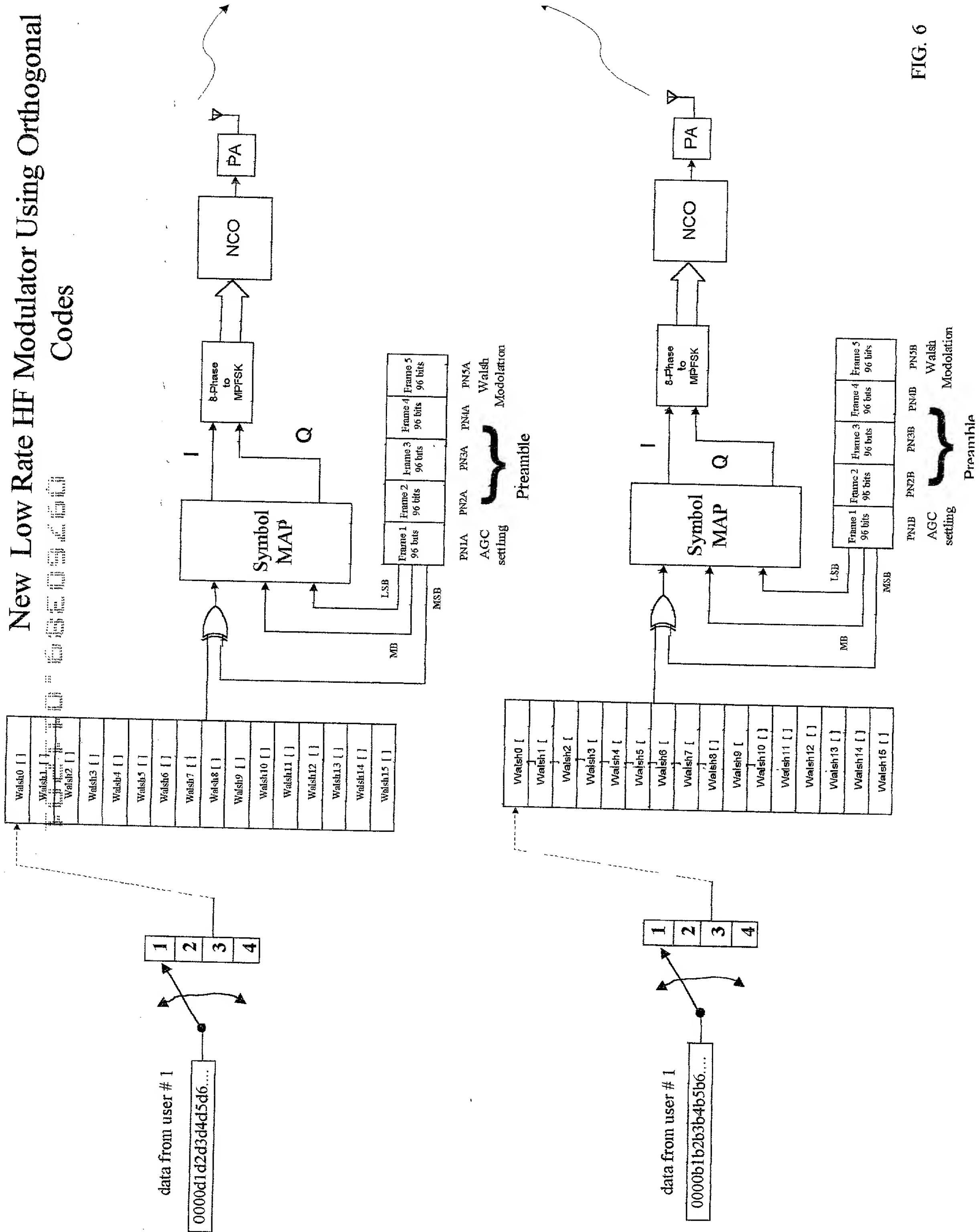
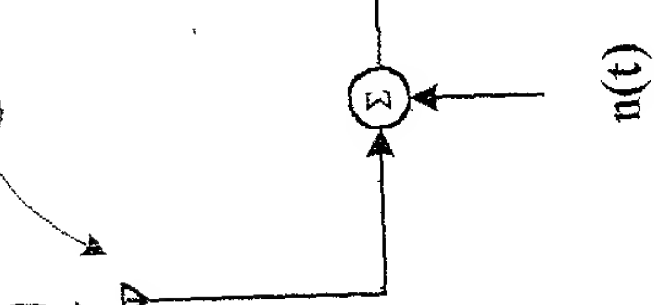


FIG. 6

New Demodulator set to receive users of orthogonal code

RF signal from ITU # 1

RF signal from ITU # 2



Receiver Downconverter

Sampler

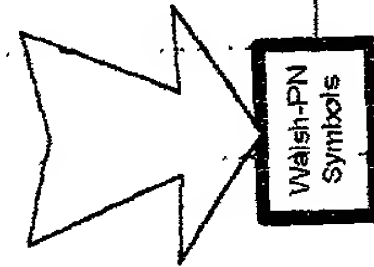
NBI Filter

Preamble Cdrrelator

Sync Detector

Reference registers for Code A:
PN1A, PN2A, PN3A, PN4A

Walsh-PN reference registers for code A users:
16 Walsh-PN symbols



Calculate Freq Offset and noncoherent channel weights

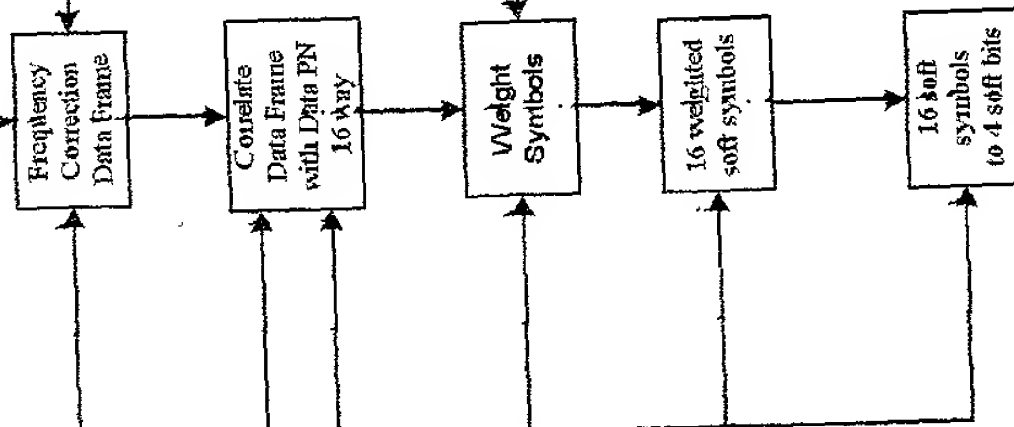
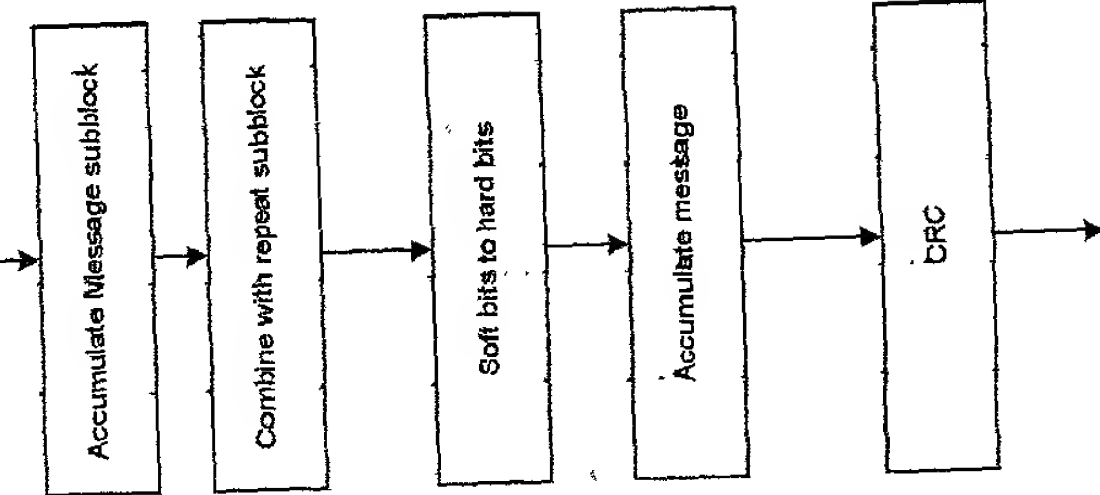


FIG. 7

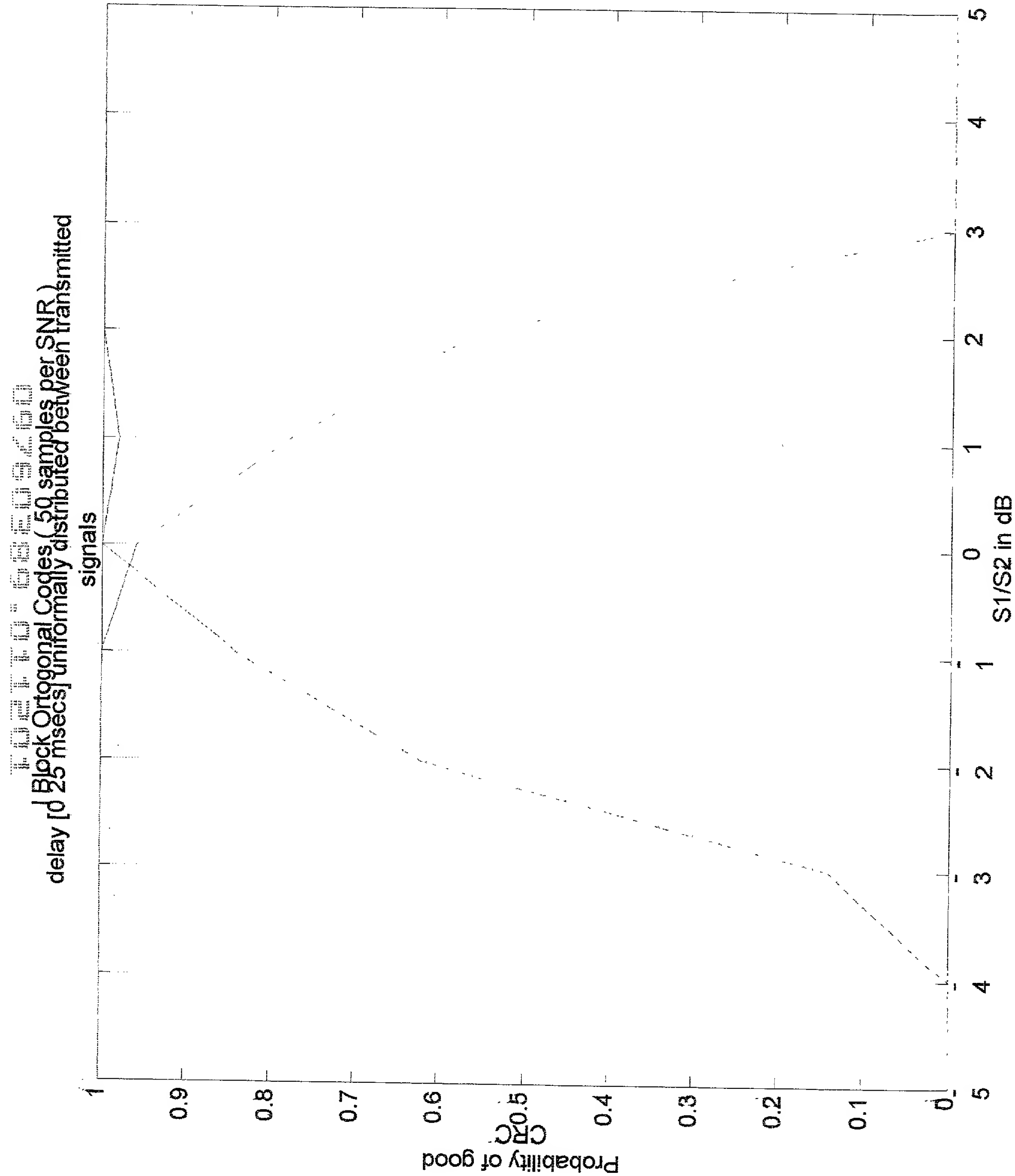


FIG. 8

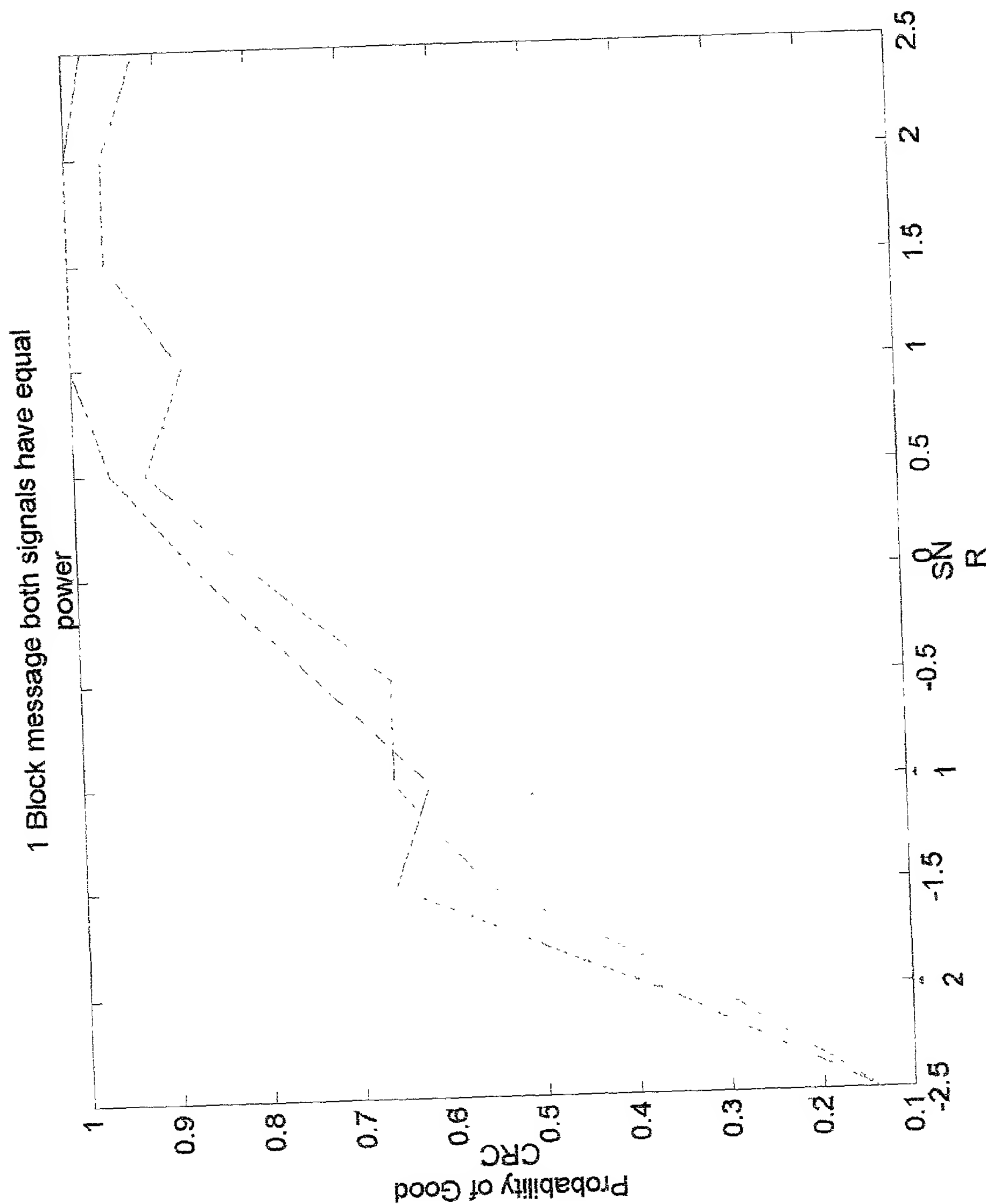


FIG. 9

FIG. 10

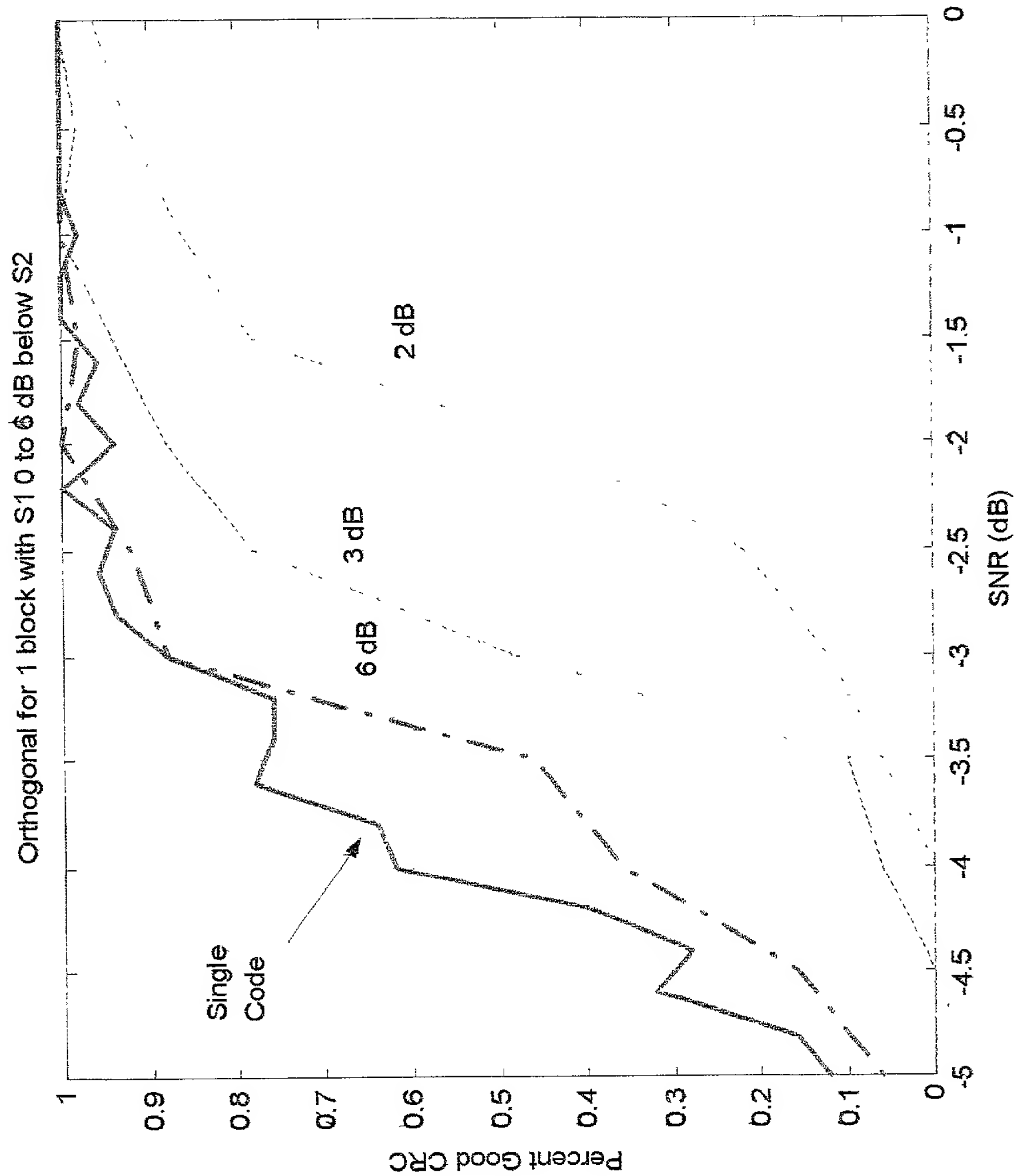


FIG. 10